UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,499	01/24/2005	Pierre Floriano	LABN:023US	7143
	7590 01/22/200 & JAWORSKI LLP	9	EXAMINER	
600 CONGRES			BEISNER, WILLIAM H	
SUITE 2400 AUSTIN, TX 78701			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			01/22/2009	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some column to priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.		Application No.	Applicant(s)				
### WILLIAM H. BEISNER  ### W	Office Action Comments	10/522,499	FLORIANO ET AL.				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the proximate of 37 CFR 1.1369, in the overs, invest, may a reply be timely filled.  If NO period for reply is appelled above, the maximum statutory particle will apply and uspire SIX (4) MONTH'S from the mailing case of this communication.  Fallist for proxy within the set or extended period for injoin will, by stabutis, care the application to Soorm ABAPLONEO (50 U.S. c. § 133).  Fallist for proxy within the set or extended period for injoin will, by stabutis, care the application Costorn ABAPLONEO (50 U.S. c. § 133).  Fallist for proxy within the set or extended period for injoin will, by stabutis, care the application Costorn ABAPLONEO (50 U.S. c. § 133).  Fallist for proxy within the set or extended period for injoin will, by stabutis, care the application C. § 50 U.S. c. § 133).  Status  **Status**  **Status**  **Status**  **Disposition of SIAMA**  4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Queyle**, 1935 C.D. 11, 453 O.G. 213.  **Disposition of Claims**  4) Claim(s) § 50-54.69.81 and 83-94 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) Claim(s) is/are allowed.  5) Claim(s) is/are allowed.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) is/are allowed.  8) Claim(s) **Gasta and Sasta and S	Office Action Summary	Examiner	Art Unit				
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1) Responsive to communication(s) filed on 20 October 2008.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 50-54,69.81 and 83-94 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 50-54,69.81 and 83-94 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.  8) Claim(s) is/are objected to by the Examiner.  10) The specification is objected to by the Examiner.  4pplication Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The oath or declaration is objected to by the Examiner.  Application Papers  9) The oath or declaration is objected to by the Examiner.  Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul>						
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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 50-54, 69, 81 and 83-94 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raspe (NL 1007489) (as evidenced by Van Run (WO 93/23154) and the English language translation of NL 1007489) in view of Hyldig-Nielsen (US 2002/0090626).

The reference of Raspe discloses a method of analyzing an analyte collected on a membrane that includes passing a fluid sample across a membrane wherein the fluid sample an analyte that is at least partially retained by the membrane (See the English language abstract). A visualization agent is added to the material collected on the membrane and the membrane is optically investigated using a microscope (See page 3, line 31, to page 4, line 2). With respect to the claimed membrane support, the English language translation states that a micromesh as disclosed in EP 0 641 250 is employed (See page lines 1-5) is employed as the membrane (13) in the device of the Raspe. The micromesh includes a porous membrane (2) and a membrane support (1) (See page 5, lines 4-19, of Van Run which is an English language equivalent of EP 0 641 250). The membrane support (1) is in contact with the membrane (2) and is configured to maintain the membrane in a substantially planar orientation during use and to allow fluid to pass through pores of the membrane support.

Claim 50 differs by reciting that the analyzing steps include imaging steps of generating a composite image using three different wavelengths of light and generating masks using two the wavelengths of light and subtracting the two masks from the composite image.

The reference of Hyldig-Nielsen discloses an image analysis method for distinguishing one type of bacteria from other present in a fluid sample that includes generating a composite image using three wavelengths of light (RGB) wherein the microorganism of interest is present in the green wavelength of light. Other microorganisms in the sample are present in the red and

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blue wavelengths of light. Using the different wavelengths of light the desired microorganism in the green wavelength of light can be determined (See paragraphs [0109]-[0115]).

In view of this teaching, it would have been obvious to one of ordinary skill in the art to employ the image analysis method of the reference of Hyldig-Nielsen in the method of the primary reference when employing the system of the primary reference to detect for the presence of Salmonella bacteria in a sample liquid.

With respect to the specific steps of subtracting the blue and red masks from the composite image, the reference of Hyldig-Nielsen discloses that while the method discussed is based on manual analysis of computer generated digital images, the process can be automated using appropriate instrumentation and software (See paragraph [0117]).

In view of this teaching, it would have been obvious to one of ordinary skill in the art at the time the invention was made to automate the manual process as suggested by the reference of Hyldig-Nielsen by using software to determine the presence of a desired analyte using the computer generated images. The use of masks to subtract the blue and red images from the composite image which would result in only an image container Salmonella would have been well within the purview of one having ordinary skill in the art.

With respect to claim 51, the method of the modified primary reference employs red, blue and green light.

With respect to claim 52, the method of the modified primary reference employs a computer for collecting the image data and generating the masks.

With respect to claim 53, if not inherent, one of ordinary skill in the art would be capable of modifying the method to determine the amount of analyte present in the sample.

With respect to claim 54, the images are collected using a digital detection device (See paragraph [0117]).

With respect to claim 69, the method resulting in the combination of the references of Raspe and Hyldig-Nielsen as discussed above with respect to claim 50 meets the limitations of claim 69.

With respect to claim 81, the membrane (13) is coupled to a membrane support (4) and body (1) (See Figures 1 and 2).

With respect to claim 83, subtracting background information from the detected image is well within the purview of one having ordinary skill in the art for the known and expected result of reducing the noise within the detection system. Also, cleaning the surface of the membrane would have been obvious for the known and expected result of allowing the device to be used for additional assays.

With respect to claims 84 and 92, the system of the modified primary reference would involve the use of a detector coupled to a programmable controller (See paragraph [0117]).

With respect to claims 85, 86 and 93, the system of the modified primary reference would include a step of adding a stain to the fluid wherein the stain emits light only in a specified portion of the visible spectrum (See paragraph [0109]-[0115] of Hyldig-Nielsen).

With respect to claims 87 and 88, if the generated masks are not inherently binary, it would have been obvious to one of ordinary skill in the art to employ binary masks since the system is generating digital images.

With respect to claim 89, the stain for the Salmonella emits light only in the green portion of the visible spectrum. As discussed above with respect to claim 50, red and blue light would be subtracted as required in claim 89.

With respect to claims 90 and 91, the use of CCD cameras is conventional in the art of digital imaging and would have been obvious for the known and expected result of employing an art recognized means for capturing digital images as is required of the modified primary reference.

With respect to claim 94, the modified method discussed with respect to claim 50 involves the use of a plurality of wavelengths of light (red and blue).

## **Double Patenting**

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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6. Claims 50-54, 69, 81 and 83-94 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 21-25 and 27-29 of copending Application No. 11/022,365. An obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but an examined application claim not is patentably distinct from the reference claim(s) because the examined claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985). Although the conflicting claims are not identical, they are not patentably distinct from each other because Claims 50-54, 69, 81 and 83-94 are generic to all that is recited in claims 21-25 and 27-29 of copending Application No. 11/022,365 fall entirely within the scope of claims 50-54, 69, 81 and 83-94 or, in other words, claims 50-54, 69, 81 and 83-94 are anticipated by claims 21-25 and 27-29 of copending Application No. 11/022,365.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

## Response to Arguments

7. With respect to the rejection of Claims 50-54, 69 and 81-94 under 35 U.S.C. 103(a) as being unpatentable over Raspe (NL 1007489) in view of Hyldig-Nielsen (US 2002/0090626), Applicants argue that the rejection is improper because the combination of the references of

Raspe and Hyldig-Nielsen does not include the use of a device that includes a support for the membrane as claimed (See pages 6-7 of Applicants' response filed 10/20/2008).

In response, the Examiner is of the position that the combination of the references of Raspe and Hyldig-Nielsen does provide a method that includes the use of a membrane support as claimed as evidenced by the references of Van Run (WO 93/23154) and the English language translation of NL 1007489 and discussed in the rejection of the claims above.

8. With respect to the rejection of Claims 50-54, 69 and 81-94 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 21-25 and 27-29 of copending Application No. 11/022,365, this rejection has been maintained since a terminal disclaimer has not be provided.

#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM H. BEISNER whose telephone number is (571)272-1269. The examiner can normally be reached on Tues. to Fri. and alt. Mon. from 6:15am to 3:45pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William H. Beisner/ Primary Examiner Art Unit 1797